# From the INTERNATIONAL SEARCHING AUTHORITY

To: HENRY TANG BAKER BOTTS L.L.P. 30 ROCKEFELLER PLAZA NEW YORK, NY 10112-4498  MAR	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION				
	(PCT Rule 44.1)  Date of Mailing (day/month/year)  26 FEB 2004				
Applicant's or agent's file reference 35413-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US03/25954  Applicant	International filing date (day/month/year)  19 August 2003 (19.08.2003)				
THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF					
The applicant is hereby notified that the international search report has been established and is transmitted herewith.  Filing of amendments and statement under Article 19:					
The applicant is entitled, if he so wishes, to amend the cl  When? The time limit for filing such amendments is international search report.	aims of the international application (see Rule 46): s normally two months from the date of transmittal of the				
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No	D, 34, chemin des Colombettes				
For more detailed instructions, see the notes on the a					
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.					
3. With regard to the protest against payment of (an) additional a	tional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Reminders					
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.					
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.					
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents	Authorized officer Sharm 5. April				
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Minhloan T. Tran  Telephone No. 703-308-4919				

Form PCT/ISA/220 (April 2002)



# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 35413-PCT	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No. PCT/US03/25954	International filing date (day/month/year) 19 August 2003 (19.08.2003)  (Earliest) Priority Date (day/month/year) 19 August 2002 (19.08.2002)						
Applicant THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of							
It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the Report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:  contained in the international application in written form.  filed together with the international application in computer readable form.  furnished subsequently to this Authority in written form.  furnished subsequently to this Authority in computer readable form.  the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.  Certain claims were found unsearchable (See Box I).  Unity of invention is lacking (See Box II).							
4. With regard to the title, the text is approved as subm	nitted by the applicant.  I by this Authority to read as follows	:					
	I, according to Rule 38.2(b), by this	Authority as it appears in Box III. The applicant may, earch report, submit comments to this Authority.					
6. The figure of the drawings to be put as suggested by the applicant because the applicant failed because this figure better ch	nt. to suggest a figure.	None of the figures					

Form PCT/ISA/210 (first sheet) (July 1998)



International application No.

PCT/US03/25954

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet
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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

### **NEW ABSTRACT**

A process and system for processing a thin film sample (170) are provided. In particular, a beam generator (110) can be controlled to emit at least one beam pulse (111). The beam pulse (111) is then masked to produce at least one masked beam pulse (164), which is used to irradiate at least one portion (510) of the thin film sample (170). With the at least one masked beam pulse (164), the portion (510) of the film sample (170) is irradiated with sufficient intensity for such portion to later crystallize. This portion (510) of the film sample (170) is allowed to crystallize so as to be composed of a first area (518) and a second area (515). Upon the crystallization thereof, the first area (518) includes a first set of grains, and the second area (515) includes a second set of grains whose at least one characteristic is different from at least one characteristic of the second set of grains. The first area (518) surrounds the second area (515), and is configured to allow an active region (618) of a thin film transistor (TFT) (610) to be provided at a distance therefrom.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/25954

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	SSIFICATION OF SUBJECT MATTER					
IPC(7) : H01L 21/20, 21/36, 29/04						
US CL : 438/487,482,486,488,481,166; 257/66,69,70,75						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
	ocumentation searched (classification system followed	by classification symb	ols)			
U.S. : 4	438/487,482,486,488,481,166; 257/66,69,70,75					
Documentati	ion searched other than minimum documentation to th					
NONE	ion scarcined odder than infinitum documentation to the	e extent mat such docu	iments are included i	in the fields searched		
Electronic da	ata base consulted during the international search (nan	ne of data base and, wi	here practicable sea	rch terms used)		
EAST searc	th terms: thin film sample, mask pattern, crystallize,	grains, TFT	praeticacie, sca	ion terms used)		
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	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where			Relevant to claim No.		
Α	US 4,309,225 A (FAN et al.) 05 January 1982 (05.	01.1982), see entire do	ocument.	1-33		
	V9 ( 160 044 D4 0 400 P4 0 400					
Α	US 6,169,014 B1 (MCCULLOCH) 02 January 200	1 (02.01.2001), see en	tire document.	1-33		
	VIO.5.501.660.4.04.750.1111					
Α	US 5,591,668 A (MAEGAWA et a l.) 07 January 1	1-33				
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Further	documents are listed in the continuation of Box C.	See patent	family annex.			
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	pecial categories of cited documents:	"T" later docume	ent published after the inte	rnational filing date or priority ation but cited to understand the		
"A" document	defining the general state of the art which is not considered to be	principle or (	theory underlying the inve	ntion		
or particul	lar relevance	"X" document of	particular relevance, the	alaine di december de la constante de la const		
"E" earlier app	plication or patent published on or after the international filing date		ovel or cannot be consider	claimed invention cannot be red to involve an inventive step		
"L" document	Which may throw doubts on priority claim(s) or which is sited to	when the doc	cument is taken alone	· · · · · · · · · · · · · · · · · · ·		
and the state of t			document of particular relevance; the claimed invention cannot be			
specified)		considered to	o involve an inventive step	when the document is		
"O" document	referring to an oral disclosure, use, exhibition or other means	combined wi	ith one or more other such is to a person skilled in the	documents, such combination		
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	published prior to the international filing date but later than the	"&" document me	ember of the same patent f	amily		
Date of the ac	ctual completion of the international search	Des -6:116-1		·		
		Date of mailing of the international search report				
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Mail Stop PCT, Attn: ISA/US Shaw O. Amfire						
Commissioner for Patents P.O. Box 1450						
Alexandria, Virginia 22313-1450 Telephone No. 703-308-4919						
	. (703) 305-3230	,	-			
orm PCT/ISA	1/210 (second sheet) (July 1998)	L				
	Constitution of the contract o					

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

# INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

## What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

## Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

## What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.